

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-13 (canceled).

Claim 14 (currently amended). A process for producing a solder mask on a printed circuit board, comprising the steps:

- a) coating of a circuit board with a layer of a photocrosslinkable composition comprising:
  - A1) a linear, crosslinkable polyurethane obtained from monomers comprising
    - i) at least one diisocyanate having 2 to 30 carbon atoms;
    - ii) at least one aliphatic or cycloaliphatic diol having 2 to 30 carbon atoms, to whose carbon chain one or more carboxyl groups have been covalently bonded, and some or all of the carboxyl groups have been esterified with an olefinically unsaturated C<sub>3</sub>-C<sub>8</sub> alcohol or with a glycidyl ester of an olefinically unsaturated C<sub>3</sub>-C<sub>8</sub> carboxylic acid; and
      - (iii) radicals of at least one aliphatic, cycloaliphatic or cycloaliphatic-aliphatic diol, or at least one oligomeric or polymeric oxaalkylene glycol, one polyesterdiol, polycarbonatediol or polylactonediol, or of a diol based on polybutadiene or polyisoprene;
    - [[iii) optionally at least one aliphatic or cycloaliphatic diol having 2 to 30 carbon atoms, to whose carbon chain at least one carboxyl group is covalently bonded;]]
  - A2) an initiator for thermally crosslinking olefinic groups and/or a photoinitiator; and
  - A3) optionally a diluent;
  - b) drying of the layer on the circuit board;
  - c) imagewise exposure of the layer under a negative photomask or by laser inscription;

- d) treatment of the layer with a developer for removing unexposed parts to produce the solder mask; and
- e) optionally heat-curing of the solder mask.

Claim 15 (previously presented). A process according to claim 14, wherein the photocrosslinkable composition additionally contains:

- A4) a polymeric binder.

Claim 16 (previously presented). A process according to claim 14, wherein the photocrosslinkable composition additionally contains:

- A5) one or more crosslinking agents which are capable of reacting with the carboxyl group.

Claim 17 (previously presented). A process according to claim 16, wherein the crosslinking agent is a polyepoxide having at least 2 epoxide groups.

Claim 18 (previously presented). A process according to claim 17, wherein the photocrosslinkable composition additionally contains a polycarboxylic acid or carboxylic anhydride for thermally crosslinking the polyepoxide.

Claim 19 (cancelled).

Claim 20 (currently amended). A linear, crosslinkable polyurethane obtained from monomers comprising:

- a) at least one diisocyanate having 2 to 30 carbon atoms;
- b) at least one aliphatic or cycloaliphatic diol having 2 to 30 carbon atoms, to whose carbon chain one or more carboxyl groups have been covalently bonded, and some or all of the carboxyl groups have been esterified with an olefinically unsaturated C<sub>3</sub>-C<sub>8</sub> alcohol or with a glycidyl ester of an olefinically unsaturated C<sub>3</sub>-C<sub>8</sub> carboxylic acid; and

(c) radicals of at least one aliphatic, cycloaliphatic or cycloaliphatic-aliphatic diol, or at least one oligomeric or polymeric oxaalkylene glycol, one polyesterdiol, polycarbonatediol or polylactonediol, or of a diol based on polybutadiene or polyisoprene.

[[c) a polyesterdiol, or a polycarbonatediol, or a polylactonediol or a diol based on polybutadiene or polyisoprene; and d) optionally at least one aliphatic or cycloaliphatic diol having 2 to 30 carbon atoms, to whose carbon chain at least one carboxyl group is covalently bonded.]]

Claim 21 (previously presented). A linear, crosslinkable polyurethane according to claim 20, which is obtained from additionally using as monomer:

e) at least one aliphatic, cycloaliphatic or cycloaliphatic-aliphatic diol, or at least one oligomeric or polymeric oxaalkylene glycol.

Claim 22 (previously presented). A composition comprising:

- a) a crosslinkable polyurethane according to claim 20;
- b) an initiator for the thermal crosslinking of the olefinic groups and/or a photoinitiator, or
- c) optionally a diluent.

Claim 23 (previously presented). A composition according to claim 22, which additionally contains:

- d) a polymeric binder.

Claim 24 (previously presented). A composition according to claim 22, which additionally contains crosslinking agents which are capable of reacting with a carboxyl group.

Claim 25 (previously presented). A composition according to claim 24, wherein the crosslinking agent is a polyepoxide having at least 2 epoxide groups.

Claim 26 (previously presented). A composition according to claim 25, which additionally contains a polycarboxylic acid or carboxylic anhydride for thermally crosslinking the polyepoxides.

Claim 27 (currently amended). A moulding produced by curing a composition comprising:

- a) a crosslinkable polyurethane obtained from monomers comprising:
  - i) at least one diisocyanate having 2 to 30 carbon atoms;
  - ii) at least one aliphatic or cycloaliphatic diol having 2 to 30 carbon atoms, to whose carbon chain at least one carboxyl group is covalently bonded, and some or all of said carboxyl groups have been esterified with an olefinically unsaturated C<sub>3</sub>-C<sub>8</sub> alcohol or with a glycidyl ester of an olefinically unsaturated C<sub>3</sub>-C<sub>8</sub> carboxylic acid;
  - iii) radicals of at least one aliphatic, cycloaliphatic or cycloaliphatic-aliphatic diol, or at least one oligomeric or polymeric oxaalkylene glycol, or a polyesterdiol, or a polycarbonatediol, or a polylactonediol or a diol based on polybutadiene or polyisoprene; and
  - iv) optionally at least one aliphatic or cycloaliphatic diol having 2 to 30 carbon atoms, to whose carbon chain at least one carboxyl group is covalently bonded;
- b) an initiator for the thermal crosslinking of the olefinic groups and/or a photoinitiator; and
- c) optionally a diluent.